



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668,445	09/23/2003	Joseph A. Marino	C516.12-0014	2339
164	7590	11/01/2005		
KINNEY & LANGE, P.A. THE KINNEY & LANGE BUILDING 312 SOUTH THIRD STREET MINNEAPOLIS, MN 55415-1002			EXAMINER PRONE, CHRISTOPHER D	
			ART UNIT	PAPER NUMBER
			3738	

DATE MAILED: 11/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

TH

<b>Office Action Summary</b>	Application No. 10/668,445	Applicant(s) MARINO ET AL.	
	Examiner Christopher D. Prone	Art Unit 3738	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 04 August 2005.
- 2a) ☒ This action is FINAL.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-3, 5-10, 12-19, 21-26, 28-33, 35-40 and 42-44 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5-10, 12-19, 21-26, 28-33, 35-40 and 42-44 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

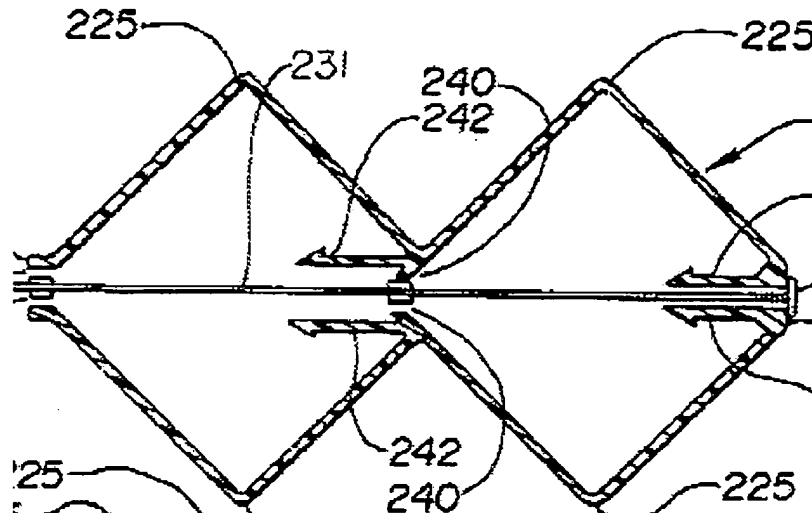
(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5, 8-10, 12, 15-19, 21, 24-26, 28, 31-33, 35, 38-40, and 42 are rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent 5,853,422 Huebsch.

In regards to claims 1, 8, 17, 24, 31, and 38 Huebsch discloses the same invention being an automatic loading mechanism for an occlusion device comprising: a occluding body (10) with a fixed center post (232), and a floating center post (216), a plurality of puller arms (222), first and second support frames (222) comprising elastic shape memory fixation devices described in column 3 on lines 64-67 of Huebsch, right and left sheets described in column 4 on lines 25-26 of Huebsch, and right and left support hoops (216) (218) shown in figures 1-25 of Huebsch. The floating center is positioned adjacent the fixed center when the body is in the open state (figures 16 and 17). The floating center is movable away from the fixed center when in the compressed shape shown in figure 14, wherein when the body is in the compressed state the fixed center can be pulled out or pushed out away from the floating center.

See figure below for more detailed description of the puller arms and support frames.

**FIG. 16**



In reference to claims 2, 9, 18, 25, 32, and 39, Huebsch discloses the same invention wherein the puller arms are constructed of nickel titanium described in column 3 on lines 64-67 of Huebsch.

In reference to claims 3, 10, 19, 26, 33, and 40, Huebsch discloses the same invention wherein an angle between adjacent puller arms is between about 5 degrees and about 180 degrees shown in figures 3 and 4 of Huebsch.

In reference to claims 5, 12, 21, 28, 35, and 42, Huebsch discloses the same invention wherein the floating center post comprises an axially extending groove (240) which reversibly connects with an axially extending pin (236) extending from the fixed center post shown in figures 15-17 of Huebsch.

In reference to claim 15 Huebsch discloses the same invention wherein the support frames each comprise a wire hoop (216) (218) and a plurality of support arms (222) shown in figures 1-25 of Huebsch and in the figure above.

In reference to claim 16 Huebsch discloses the same invention wherein the support arms are constructed of stranded wire described in column 4 on lines 1-2 of Huebsch.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 6, 7, 13, 14, 22, 23, 29, 30, 36, 37, 43, and 44 are rejected under 35 U.S.C. 103 as being unpatentable over United States Patent 5,853,422 Huebsch in view of United States Patent 5,733,294 Forber.

Huebsch discloses the invention substantially as claimed being an automatic loading mechanism for an occlusion device. However, Huebsch does not disclose that the floating and fixed center posts are constructed of platinum-iridium.

Forber teaches the use of an occlusion device with center posts constructed of platinum-iridium (column 3 lines 42-43) in the same field of endeavor for the purpose of providing a center post with a high level of radiopacity.

***Response to Arguments***

Applicant's arguments filed 8/4/05 have been fully considered but they are not persuasive. Applicant argues that Huebsch fails to disclose a floating center being

Art Unit: 3738

positioned adjacent the center post when the occluding device is in its open state and is movable away from the center post to cause the puller arms to collapse the occluding body." However as disclosed above Huebsch discloses a floating center and fixed center, wherein the floating center is positioned adjacent the fixed center when the body is in the open state (figures 16 and 17). Huebsch further shows the floating center is movable away from the fixed center when in the compressed shape shown in figure 14, wherein when the body is in the compressed state the fixed center can be pulled out or pushed out away from the floating center.

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Art Unit: 3738

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher D. Prone whose telephone number is (571) 272-6085. The examiner can normally be reached on Monday Through Fri 8:30 to 5:00.

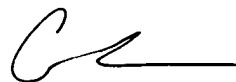
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (571) 272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

*W*

CDP

Christopher D Prone  
Examiner  
Art Unit 3738



**CORRINE McDERMOTT**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 3700**